

**Data Warehousing & Data Mining**

P. Pages :2

Time :Three Hours



TKN/KS/16/7584

Max. Marks :80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No.2.
  3. Solve Question 3 OR Questions No.4.
  4. Solve Question 5 OR Questions No.6.
  5. Solve Question 7 OR Questions No.8.
  6. Solve Question 9 OR Questions No.10.
  7. Solve Question 11 OR Questions No.12.
  8. Assume suitable data whenever necessary.

1. a) Explain in brief the failure of past decision support system. 6  
 b) Describe DW Architecture in details. 8
- OR**
2. a) Distinguish between:- 8  
 i) Data mart and Data Warehouse.      ii) Operational and informational system.  
 b) Justify, Data warehouse is an Environment, not a product. Give the desired feature of new type of environment. 6
3. a) What are the challenges in Data preprocessing. Also give various forms of preprocessing? 6  
 b) What the measures of data dispersion. 4  
 c) How data cleaning can be handled in preprocessing? 3
- OR**
4. a) Explain Min-max normalization and z-score normalization. 4  
 b) What are the strategies used in data reduction techniques. 4  
 c) What is need for multidimensional analysis. 5
5. a) Distinguish between OLTP and OLAP. 6  
 b) Explain star schema. States its advantages and disadvantages. 7
- OR**
6. a) What are different types OLAP models? 6  
 b) Define Data cube and explain OLAP operations on data cubes. 7
7. a) Explain KDD process. 4  
 b) Discuss various kinds of Data used in data mining. 6  
 c) Differentiate between clustering and classification. 4

**OR**

8. a) Discuss various issues in Data mining. 4
- b) Differentiate between DW and DM. 4
- c) Discuss data mining for the following application domain. 6
- i) Financial data analysis. ii) Retail Industry.
9. a) Write the steps Involved in APRIORI algorithm and explain it. 7
- b) What is the procedure to generate association rules from frequent item set? 6
- OR**
10. Write a short note on:-
- a) Constrained based mining. 5
- b) Steps to improve efficiency of APRIORI algorithm. 5
- c) Advantages and dis advantages of FP-growth tree. 3
11. a) Define Big data. States its challenges. 5
- b) Describe the architectural component of Hadoop ecosystem. 8
- OR**
12. a) Discuss Business intelligence application used in Logistics and production domain. 9
- b) Write a note on BI framework 2020. 4

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